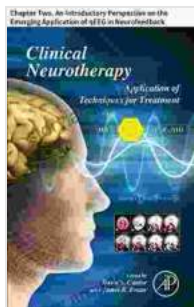


# Chapter Two: An Introductory Perspective On The Emerging Application Of Qeeg In



## Clinical Neurotherapy: Chapter Two. An Introductory Perspective on the Emerging Application of qEEG in Neurofeedback by Richard Soutar

★★★★★ 5 out of 5

Language : English  
File size : 1246 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 39 pages



Quantitative electroencephalography (QEEG) is a non-invasive brain imaging technique that measures the electrical activity of the brain. It is used to diagnose and treat a variety of neurological disorders, including epilepsy, ADHD, autism, dementia, Alzheimer's disease, and Parkinson's disease.

### What is QEEG?

QEEG measures the electrical activity of the brain using electrodes placed on the scalp. The electrodes record the brain's electrical signals, which are then amplified and digitized. The data is then analyzed using a computer to create a map of the brain's electrical activity.

QEEG can be used to measure a variety of brainwave patterns, including alpha, beta, theta, and delta waves. Each type of brainwave pattern is associated with a different state of consciousness or activity. For example, alpha waves are associated with relaxation, while beta waves are associated with alertness and concentration.

### **How is QEEG used?**

QEEG is used to diagnose and treat a variety of neurological disorders. In diagnosis, QEEG can help to identify the type of seizure disorder a person has, or to determine whether a person has ADHD, autism, or another neurological disorder.

In treatment, QEEG can be used to guide neurofeedback therapy. Neurofeedback therapy is a type of biofeedback therapy that uses QEEG to train people to control their brainwave patterns. Neurofeedback therapy has been shown to be effective in treating a variety of neurological disorders, including epilepsy, ADHD, autism, and dementia.

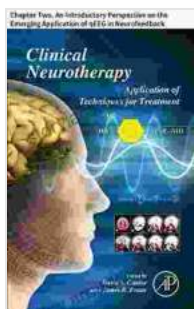
### **What are the benefits of QEEG?**

QEEG has a number of benefits over other brain imaging techniques, such as MRI and CT scans. QEEG is non-invasive, painless, and relatively inexpensive. It can also be used to measure brain activity in real time, which makes it ideal for guiding neurofeedback therapy.

### **What are the limitations of QEEG?**

QEEG is not a perfect diagnostic tool. It can be difficult to interpret QEEG results, and there is some overlap in the brainwave patterns of different neurological disorders. Additionally, QEEG is not able to measure the activity of deep brain structures.

QEEG is a promising new brain imaging technique that has a number of potential applications in clinical practice. It is non-invasive, painless, and relatively inexpensive, and it can be used to measure brain activity in real time. QEEG has been shown to be effective in diagnosing and treating a variety of neurological disorders, and it is likely to play an increasingly important role in clinical practice in the years to come.

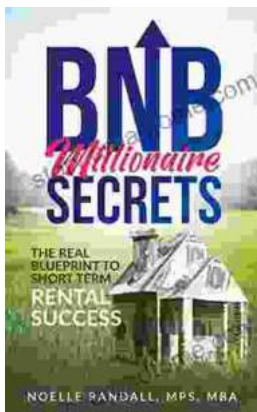


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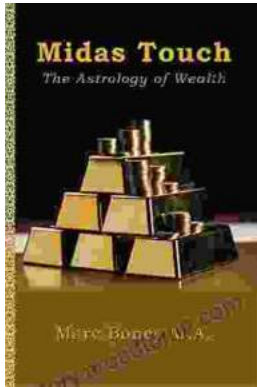
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